YORK
Survey Supply

Nothing else measures up!

Prospect House
George Cayley Drive
Clifton Moor
York
England
YO30 4XE

Tel: +44 (0) 1904 692723
Fax: +44 (0) 1904 690385

E-Mail: sales@yorksurvey.co.uk

www.YorkSurvey.co.uk
...for secure online ordering of all our products!

YORK Survey Supply

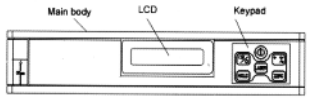
S-Digit Multi Slope Measurer

Code: 263090

Operating Instructions

Ref:.. \operat98\instructions 15\263090.qxp 05-01-15

©York Survey Supply Centre 2015



FEATURES

Switch on/off S-Digit Multi

Current reading will be frozen by pressing HOLD

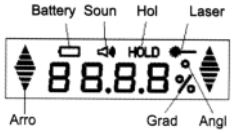
Press 1x shortly = light on
Press 1x long = sound on
0° and 90° position of inclination will be confirmed by a signal tone

Set reading of display to degrees (°) or percent (%)

Switch on/off laser beam

Calibration - see instructions below

Battery status - batteries have to be replaced if lamp is flashing



KIT CONSISTS OF

Electronic slope measurer S-Digit Multi, padded bag, batteries, user's manual

FUNCTIONS

Electronic slope measurer, for measuring inclinations, slopes and plane surfaces

TECHNICAL DATA

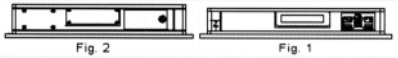
Working range	0 - 360°
Resolution	0.1° or 0.1%
Accuracy	0° + 90° = ±0.1°
	1° - 89° = ±0.2°
Power supply	3x 1.5V AAA
Operating time	600h
Wavelength	650nm
Laser class	2
Laser output power	<1mW
Accuracy laser	
vertical	±0.3mm/m
horizontal	±2mm/m
Temperature range	-10°C to +45°C
Size	250 x 30 x 55mm
Weight	0.56kg incl. batteries

IMPORTANT

Calibration of inclinometer:
- calibrate before first use
- before important measurements
- after a hit or drop
- after a large fluctuation in temperature

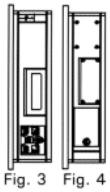
CHECK OF HORIZONTAL CALIBRATION

Lay down unit to a flat horizontal surface (fig. 1). Switch on and note down value of measured inclination. Turn unit by 180° (fig. 2) and note down measured value. If deviation between two values is more than 0.2° instrument has to be calibrated.



CHECK OF VERTICAL CALIBRATION

Lay down unit to a flat vertical surface (fig. 3). Switch on and note down value of measured inclination. Turn unit by 180° (fig. 4) and note down measured value. If deviation between two values is more than 0.2° instrument has to be calibrated.

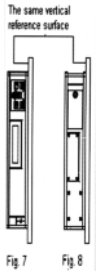


HORIZONTAL CALIBRATION

Lay down unit on a flat horizontal surface (fig. 5) and switch unit on. Press ZERO (display shows „0"). Wait 10 sec, press ZERO again (display shows „1"). Turn unit by 180° (fig. 6), wait 10 sec and press ZERO (display shows „2") => calibration process completed. Now unit starts measuring automatically.

VERTICAL CALIBRATION

Lay down unit on a flat vertical surface (fig. 7) and switch unit on. Press ZERO (display shows „0"). Wait 10 sec, press ZERO again (display shows „1"). Turn unit by 180° (fig. 8), wait 10 sec and press ZERO (display shows „2") => calibration process completed. Now unit starts measuring automatically.



MEASUREMENT OF INCLINATION

Switch on S-Digit Multi. Measured inclination value is shown in degrees (°) - can be changed to percent (%) by pressing button „°/%". Lay unit on surface with blank bottom side only. The 2 arrows in the display indicate which direction S-Digit Multi has to be moved in order to reach 0° or 90° position.

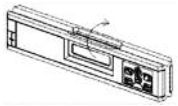
0° - 45.0°	Leading to 0° position
45.1° - 90°	Leading to 90° position

The exact „0" position is shown by double arrows.

Display has automatic digit inversion for overhead measurements. Reading of measured values is possible in every position.

SPECIAL APPLICATION

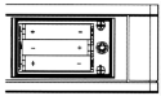
S-Digit Multi has a rotatable display which can be turned within a range of 180°.



Batteries

Open the battery compartment cover and put in batteries (take care of polarity).

Important: Battery symbol flashes when batteries need to be replaced.



Connection to camera tripod

With the ¼" thread (at bottom side) S-Digit Multi can be connected to a camera tripod.

Laser classification

- The instrument is a laser class 2 laser product according to DIN IEC 60825-1:2003-10.
- It is allowed to use unit without further safety precautions.
- Eye protection is normally secured by aversion responses and blink reflex.

Laser class 2 warning labels on the >> laser instrument.

Care and Cleaning

- Please handle measuring instruments with care.
- Clean with soft cloth only after any use. If necessary damp cloth with some water.
- If instrument is wet clean and dry it carefully. Pack it up only if it is perfectly dry.
- Transport in original container/case only.

Safety Instructions

- Please follow instructions given in operator's manual.
- Use instrument for measuring jobs only.
- Do not open instrument housing. Repairs should be carried out by authorised workshops only. Please contact your local dealer.
- Do not remove warning labels or safety instructions.
- Keep instrument away from children.
- Do not use instrument in explosive environments.

CE-Conformity

Instrument has CE-mark according to EN 61326:1997, EN 55022, EN 61000-4-2/-3.

CE 10/2007

Electromagnetic Acceptability (EMC)

- It cannot be completely excluded that this instrument will disturb other instruments (e.g. navigation systems).
- will be disturbed by other instruments (e.g. intensive electromagnetic radiation, nearby industrial facilities or radio transmitters).

Specific Reasons for Erroneous Measuring Results

- Measurements through glass or plastic windows.
- Dirty laser emitting windows.
- After instrument has been dropped or hit. Please check accuracy.
- Large fluctuation in temperature: If instrument will be used in cold areas after it has been stored in warm areas (or vice versa) please wait some minutes before carrying out measurements.

Warranty

- The product is warranted by the manufacturer to the original purchaser to be free from defects in material and workmanship under normal use for a period of two (2) years from the date of purchase.
- During the warranty period, and upon proof of purchase, the product will be repaired or replaced (with the same or similar model at manufacturer's option), without charge for either parts or labour.
- In case of a defect please contact the dealer where you originally purchased this product. The warranty will not apply to this product if it has been misused, abused or altered. Without limiting the foregoing, leakage of the battery, bending or dropping the unit are presumed to be defects resulting from misuse or abuse.

Exceptions from Responsibility

- The user of this product is expected to follow the instructions given in operator's manual. Although all instruments left our warehouse in perfect condition and adjustment the user is expected to carry out periodic checks of the product's accuracy and general performance.
- The manufacturer or its representatives assumes no responsibility of results of a faulty or intentional usage or misuse including any direct, indirect, consequential damage and loss of profits.
- The manufacturer or its representatives assumes no responsibility for consequential damage and loss of profits by any disaster (earthquake, storm, flood, etc.), fire, accident or an act of a third party and/or a usage in other than usual conditions.
- The manufacturer or its representatives assumes no responsibility for any damage and loss of profits due to a change of data, loss of data and interruption of business etc. caused by using the product or an unusable product.
- The manufacturer or its representatives assumes no responsibility for any damage and loss of profits caused by usage other than explained in the user's manual.
- The manufacturer or its representatives assumes no responsibility for damage caused by wrong movement or action due to connecting with other products.

©York Survey Supply Centre 2015